

Schubkurbeltriebwerk	Slide and crank mechanism
Synchronkoppelglied	Coupling link of or for synchroniser
Schenkwinkel	Angle of obliquity
	Angle of incident
	Leaning angle of apex seal relative to normal to bore
Laufdichtfläche	Primary or sliding seal area (high relative velocity)
Rutsdichtfläche	Secondary or drift seal (side of sealing element where there is only nominal movement)
Dichtbolzen	Sealing block, link-block of Wankel sealing grid
Dichtgrenze	Sealing boundary where sealing ends, occurs, is effected, sealing grid
Zweimaschinensatz	Machine consisting of two units, compression and expansion units
Zellenräder	Multi-vane rotors, pumps or compressors

* Most complicated, difficult to draw. not elaborated on in book

Index

{Prefix T indicates table number}

Additional rotation	28	Counter engagement	25, T 1
Allweiler Co.	10	combined with slip	27
Andrew	13	definition	42
Arctuate engagement	14, 19, 33, 35, T 1	Crank	
definition	42	double	23, 31
Axes of rotation	12–13	treble	23
		Curve generating points	16, 19
Bährens	32		
Baradat-Esteve	34	Davis	T 23
Beale	21	de Lavaud, Sensaud	21
Behrens	24	di Blasi	22
BICERA	27–28	Diesel	25
Blanking press	18	Dillenberg	T 22
Bompard	32	Doyer engines	23
Bopp and Reuther	31		
Brown and Boveri	22	Emery	T 23
Brunklaus, I. H. A. M.	33	Engagement	13–15, T 1
Bucherer engine	18	arctuate	14, 19, 33, 35
		definition	42
Cam engagement	13–14, 16–17, 19, 30, 37	cam	13–14, 16–17, 19, 30, 37
definition	42	definition	42
Central-axis machines	33–34	combined reciprocating and slip	26
Classification charts	15, T 7–10	counter	25
Cochrane	T 23, T 27	definition	42
Compressors	32	mixed	36
Cooley	19, 20, T 13	pure	29

possible types of	14	Napier, D.	32
principles of	14, T 2–6	NSU-Wankel	20
reciprocating	14, 18, 30, 31		
definition	42	Oldham	26, T 18, T 19
rotors turning in same direction	14	Ortega, Martinez	31
similar to cam engagements and oscillating piston or sealing components	35	Oscillating pistons	35
slip	13–14, 24, 31, 37	Otto-cycle engines	24
definition	42	Oval gear principle	31
counter combined	27		
Engagement (cont.)		Pappenheim pump	23
terms and expressions used	14	Parallel-axis machines	12
Escher-Wyss Co.	36	Parsons	18, T 11
External axis machines 12, 17, 18, 19, 24, 30		Patschke, A.	33
		Pendulum-piston arrangements	10
Fiebig	T 12	Pickert	23
Fixen	24, T 16	Piston connection arrangements	10
Fletcher	T 23	Piston machines	
Franchot	26, T 18, T 19	classification	9
Franzen and Fahlbeck	21, T 14	components and definitions	9
		Planche	24
Galloway	19, 24	Planetary-rotation machines (PLM)	
Geiger	35, T 26	8, 11, 15, 16, 17, 23	
Gnôme	30	additional rotation	28
		basic mechanism of	12
Herrmann	T 14	circular outer shape	30
Holt and Jackson	23	external-axis	19
Höpner, E.	20	port sizes and opening periods	20
Hult, O. W.	32	single-rotation	37
Huxley	31	with arctuate engagement	19
Hypocycloidal principle	31	with reciprocating engagement	18
		with reciprocating and slip engagement	27
Inclined-axis machines	13, 39	with rolling pistons	36
Internal-axis machines 12, 17, 19, 22, 23, 30		with slip engagement	24–25, 31
Intersecting-axis machines	13, 19	PLM.	See Planetary-rotation machines
ISUZU 20		Ports, timing	25
		Power component	
Jacquet	23	embracing inner	16
Jones	23	Power component (cont.)	
Jones and Shirreff	T 22	embracing outer	16
		penetrating inner	16
Kauertz	34	penetrating outer	16
Köpke	19	variations of	16
Kraus	34	Power output members	9
		Power plus	T 11, T 19
Legranjaques	34	PROM.	See Rotating-piston machines, planetary-rotation type
Lind, A.	19, T 12		
Lysholm compressor	32		
Maillard	24, T 16	Ramelli	29, 31–32, 35, T 22, T 24
Model sheets	T 11–26	Reciprocating engagement 14, 18, 30, 31	
Moineau	21, T 13	combined with slip	26
Murdock	23	definition	42

Reciprocating-piston machines (REM)	9, 18–23
working chamber volume	10
Relative speed of rotation, notation	17
REM. See Reciprocating-piston machines	
Renault	20
Reuleaux, F.	39–40
Ritz and Schweitzer	28
Rolling pistons	36–38
ROM. See Rotating-piston machines	
Roots blowers	23, 32
ROPIMA. See Rotary-piston machines	
Rotasko compressor	36
Rotary-piston machines (ROPIMA)	8
axes of rotation	12–13
basic configurations	11
basic groups	11
design and development	39
mode of motion imparted to c.g. of moving parts	11
Rotary-piston machines (ROPIMA) (cont.)	
parallel axis	12
types and models	15
see also Planetary-rotation machines; Rotating-piston machines; Single-rotation machines	
Rotating-piston machines (ROM)	8, 29
basic mechanism of	12
central-axis machines	33–34
definition of term	8
double crank	31
planetary-rotation type (PROM)	12, 15, 16, 23, 31, 32, 35, 36, 37
single-rotation type (SROM)	12, 15, 34, 35, 36, 37
Rotation, additional	28
Rotation speed notation	17
Rotors	13, 14, 23
additional rotation	28
rotation speed notation	17
Ruf engines	23
Sauver	T 12
Scheffel	25
Scotch Yoke	26
Sealing components	9, 35, 36
Sealing elements	16, 19
grid arrangement	19
inner	24, 25
outer	25
Seguin	30
SIM. See Single-rotation machines	
Siemens Co.	36
Simpson and Shipton	35
Single-rotation machines (SIM)	8, 11, 15, 17, 19, 27, 28
basic mechanism	12
with arcuate engagement	19
Single-rotation machines (SIM) (cont.)	
with cam engagement	19
with counter engagement	25
with slip engagement	25
Sliding piston	37
Slip-engagement	13–14, 24, 31, 37
combined with counter	27
combined with reciprocating	26
definition	42
Speed of rotation, notation	17
SROM. See Rotating-piston machines, single-rotation type	
SROM	37
Stauber	36
Sugopump	T 27
Tänzler	35, T 24
Taverdon, L.	21
Trochoidal bore	20, 26
Trochoidal curves	19, 23
Trochoidal machines	22, 24
Trotter	T 23
Turboflex Co.	36, T 27
Umpleby	20, 33
Vane type machines	10, 33
Varley, C. H.	19
Voith Co.	36
Wallinder and Skoog	21, T 14
Walter, H.	25
Wankel	T 12–14, T 17–19
Walt, James	35
Wilhelmi Co.	33
Witte	21
Wittig	32, T 22
Witty	18, T 11
Woodcock	26, T 19
Working chamber	9, 23–24
arrangement of parts forming	13, 17
relative motion of parts forming	13
variable volume	33
formation	13–14
volume	9, 10
Yule	32
Zoller	26, T 19

Wankel
Rotary piston machines.

